epth 6	Contents 7	Reference to last Measurement 8

Final and Final Bill

M. A. R. 57 (Rule 116)
Measurement Book

No. B 184210

Serial No. BP-43 & 29 3 14

Name of work Improvements to Roads and construction of culverts at MS palya Salim House to Ali House Road in ward No-11.

Name of Contractor of nature of Agency Agency: P. Kumar Swamy, # 30, 1st main, C'Street, New Buddanahalli

Date of commencement of work As above.

Date 1	Full description, etc, of work 2	Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	Work code No: 011-14-000012						
	Work order No: EE/BTP/BBMP/E-proc/WO/493/2013-14 Date: 22.02.2014						
	Est cost Rs. 10.00 Lakhs						
	Date of Recording: 24-2-14						
1)	Earth work excavation by manual means in hard soil involving an average horizontal throw upto 2m and an average lift upto 0.5m excavated surface levelled and sides neatly dressed the disposed earth to be levelled neatly after breaking of clods etc complete as per specification and direction of engineer in						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	in charge & work As per pre measurement Recorded vide page No: 184289 & 1511 MB i/s					95.03 cy @ 89.81/cy	8535=00
	2) Construction of embankment with approved material gravel/murum with all lifts and leads transporting to site spreading, grading to required slope and compacting to meet requirement table 300-2 complete as per specification (which includes cost of gravel/murum watering charges and compacting by vibratory Roller) etc complete as per specification						

Serial No. .....
Name of work .....
Name of Contractor of nature of Agency.....
Date of commencement of work.....

Date	Full description, etc, of work
1	2
	and engineer in charge As per No
	3) providing and laying opc cement @ 180 kgs aggregates @ 0.85cy e

BOOK

ons		Contents	Reference to last Measurement
readth 5	Depth 6	7	8
ment Recorded			
& 15th MB 1's			
	95.03 cy		
@ 89.81/cy		8535=00	
proved material gravel/murum with spreading, grading & requirement table 300-2 complete & gravel/murum watering charges complete as per specification			

M. A. R. 57 (Rule 116)
Measurement Book

No. B 184211

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Number	Dimensions Length	Breadth	Depth	Contents	Reference to last Measurement
1	2	3	4	5	6	7	8
	and engineer in charge & work.						
	As per pre measurement Recorded vide page						
	No 184290		& 15th MB 1's			218.70 cy	
					@	161.61/cy	
3)	Providing and laying in position plain cement concrete & mix M 7.5 with opc cement @ 180 kgs using hommu and down size crushed granite metal coarse aggregates @ 0.85 cy and fine aggregates @ 0.58 cy machine mixed concrete laid						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	in layers not exceeding 15 cm Thick well compacted in foundation and plinth including cost of all materials labours I.O.M & making curing etc complete as per specification and direction of engineer in charge of work.						
	As per premeasurement Recorded vide						
	page no: 184 & 191 of this MB's 91.28 cm						
	@ 4247.83/cm 387751=00						
	Measurement continued on: 26						
4)	providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar 1:6 stone hammered dressed in courses not						

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Serial No. .....
Name of work ..... Fron
Name of Contractor of nature of Agency.....
Date of commencement of work.....

Date	Full description, etc, of work	Number
1	2	3
	less than 20 cm high bond c cost of materials, labours, cem direction of engineer in charge	
	For culvert	2
5)	providing rubble pointing w mortar 1:3 20 mm deep after including cost of materials l and direction of engineer, in	

BOOK

dth	Depth 6	Contents 7	Reference to last Measurement 8
		well compacted in foundation	
		with labours 14 OM & making	
		and direction of engineer in	
		Recorded work	
		MB's 91.28 cm	
		@ 4247.93/cm 387751 = 00	
		Amt 24/2 CFC 24/2	
		on: 26/2/14	
		boulder size stone masonry in	
		mm cored dressed in courses not	

M. A. R. 57 (Rule 116)
Measurement Book

No. B 184212

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date 1	Full description, etc, of work 2	Number 3	Dimensions Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	less than 20 cm high boul stones at 2m apart in each course including cost of materials, labours, curing etc complete as per specification and direction of engineer in charge of work.						
	For culvert	2	5.00	0.60	0.80	5.40 cm	CFC 24/2
						@ 3449.38/cm 18627 = 00	
5)	providing ruled pointing to coursed stone masonry with cement mortar 1:3 20 mm deep after raking joints to depth of 20 mm nicely lining including cost of materials labours curing etc. complete as per specification and direction of engineer in charge of work.						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		2	5.00	-	0.90	9.00 Cum	
						@ 75.56/Cum = 680=00	
	6) providing and laying in position plain cement concrete of mix M15 with cement @ 240 Kgs with 20 mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregate @ 0.458 cum machine mixed concrete laid in layers not exceeding 15 cm thick well compacted in foundation, plinth and sills including cost of all materials labours HOM & machine curing etc complete as per specification and direction of engineer in charge of work.						
	culvert capping	2	5.00	0.60	0.10	0.60 Cum	
						@ 4643.60/Cum 2786=00	

Serial No. .....
Name of work .....
Name of Contractor of nature of Agency.....
Date of commencement of work.....

Date	Full description, etc, of work	N
1	2	
	Measurem	
	7) providing and Removing removal of form work for including attached pilaste all materials labours et in charge of work.	
	As per pr	
	18.28	

MENT BOOK

Dimensions			Contents	Reference to last Measurement
ength 4	Breadth 5	Depth 6	7	8
5·00	–	0·90	9.00 sq m	
		@ 75·56/sq m =	680=00	
in plain cement concrete of mix M15 m and down size graded granite ium and fine aggregate @ 0.458 cum layers not exceeding 15cm thick well and cills including cost of all materials etc complete as per specification and work.				
00	0·60	0·10	0·60 cum	
		@ 4643.60/cum	2786=00	

M. A. R. 57 (Rule 116)
Measurement Book

No. B 184213

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Number	Dimensions Length	Breadth	Depth	Contents	Reference to last Measurement
1	2	3	4	5	6	7	8
	Measurement continued on:				2-3-14		
7)	providing and Removing centering shuttering, strutting, propping etc and removal of form work for vertical surfaces such as walls of any thickness including attached pilasters, buttresses, plinth and string courses cost of all materials labours etc complete as per specification and direction of Engineer in charge of work.						
	As per premeasurement recorded vide page no:						
	184281 of this MB i/o 184281					3.00 sq m	
					@	268.37/sq m	805=00

सहायक कार्यपालक अभियंता

सहायक कार्यपालक अभियंता

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	8) Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 320 kgs with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregates @ 0.459 cum with superplastisizer @ 3% conforming to IS 9103-1999 reaffirmed 2009 machine mixed concrete laid in layers not exceeding 15cm thick vibrated for all work etc complete as per specifications and direction of engineer in charge of work.						
	Culvert Beam Slab	1	5.00	1.80	0.25	2.25	
	Existing drain covering slab	1	30.00	0.80	0.10	2.70	
		1	29.00	0.80	0.10	2.61	
						7.50	
					@	5583.36	/cum

Serial No. .....
Name of work .....
Name of Contractor of nature of Agency.....
Date of commencement of work.....

Date	Full description, etc, of work
1	2
	9) Providing TMT steel rei... cutting, bending hooki... wherever required Tying ... members wherever need... shall be not be measured ... etc complete as per spe...
	As per ...
	Agency ...

OOK

Depth 6	Contents 7	Reference to last Measurement 8
d cement concrete & design		
20mm and down size Prashed		
and fine aggregates @ 0.459 cy		
s 9103-1999 reaffirmed 2008		
ok excluding 15cm thick vibrated		
and direction & engineer		
0.25	2.25	
0.10	2.70	
0.10	2.61	
	7.50 cy	
@	5583.36/cy	

M. A. R. 57 (Rule 116)
Measurement Book

No. B 184214

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date 1	Full description, etc, of work 2	Number 3	Dimensions Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
2/3/14	7) providing TMT Steel reinforcement for RCC work including straightening cutting, bending hooking placing in position lapping and/or welding wherever required tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall be not be measured and paid) cost of materials labour HOM & machine etc complete as per specification and direction & engineer in charge & work						
	As per Premeasurement Recorded vide						
	page No: 184292 & this MB it's					6.75 cy	
					@	7376.41/cy	49791=00

2/3/14

2/3/14

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Measurement continued on :					29/3/19	
10)	providing and fixing 20mm thick compressible fibre board in expension joint complete as per drawing & Technical specification & complete as per specification and direction of engineer in charge of work.						
		2	2.50	-	-	5.00	
		4	2.60	-	-	10.40	
		2	2.70	-	-	5.40	
		2	2.50	-	-	5.00	
		3	4.30	-	-	12.90	
		2	4.50	-	-	9.00	
		2	4.30	-	-	8.60	
		1	3.50	-	-	3.50	
						58.50 Mtr	

@ 135.75/-

Serial No. .....
Name of work .....
Name of Contractor of nature of Agency.....
Date of commencement of work.....

Date	Full description, etc, of work
1	2
11)	providing and laying c... belly of ready mixed c... and well compacted v... form works scaffoldings ... left in complete (exce... mixed cement concrete ... main and secondary be... engineer in charge of work...
	CR 31HS Balance

BOOK

s		Contents	Reference to last Measurement
adth	Depth		
5	6	7	8
ued ou		29/3/16	
mpressible fibre board in			
ng & technical specification			
in & engineer in charge & work.			
-		5.00	
-		10.40	
-		5.40	
-		5.00	
-		12.90	
-		7.00	
-		8.60	
-		3.50	
		58.50 Mtr	7946=0

@ 135.75/4

M. A. R. 57 (Rule 116)
Measurement Book

No. B 184215

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Number	Dimensions: Length	Breadth	Depth	Contents	Reference to last Measurement
1	2	3	4	5	6	7	8
11)	providing and laying cement concrete using 20 mm and down size granite jelly & ready mixed concrete (RMC) for RCC work laid in 15cm thick layers and well compacted vibrating, curing finishing with necessary cement mortar form work scaffoldings to withstand pumping & concrete with all lead and lift etc complete (exclusive & cost & steel and fabrication charges) Ready mixed cement concrete M20 (1:1.5:3) for raft foundation, column footing main and secondary beams etc complete as per specification and direction & engineer in charge & work.						
	CR 31HS	1	10.30	(4.7+4.6)	0.070	5.25	
	Balance						

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Salim House Road	1	30.00	4.40	0.070	13.20	
		1	18.70	$\frac{(4.4+4.5)}{2}$	0.070	7.43	
	Ali House Road	1	30.00	$\frac{(3.9+3.5)}{2}$	0.070	11.10	
		1	30.60	$\frac{(3.5+3.5)}{2}$	0.070	12.11	
	CR	1	20.00	$\frac{(3.1+3.2)}{2}$	0.070	7.56	
						56.35 cm	
					@	6400.23/cm	360652.20
(12)	Vacuum dewatering with vacuum pump and suction mat and						

Serial No. .....
Name of work .....
Name of Contractor of nature of Agency.....
Date of commencement of work.....

Date	Full description, etc, of work	Nu
1	2	
	compaction with stein fle generator HOM & machine complete as per specifica	
	CR 3 LHS Balance	
	Salim House Road	1
	Ali House Road	1

T BOOK

sions		Contents	Reference to last Measurement
Breadth 5	Depth 6	7	8
4.40	0.070	13.20	
(4.4+4.5)/2	0.070	7.43	
(8+3.5)/2	0.070	11.10	
(5+3.5)/2	0.070	12.11	
(1+3.2)/2	0.070	7.56	
		56.35 cy	
@		6400.23/cy	360853.20

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M. A. R. 57 (Rule 116)
Measurement Book

No. B 184216

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date 1	Full description, etc, of work 2	Number 3	Dimensions Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	compaction with stein floater clubbed with floating elec including cost of generator HSM & machinery reqd vibrating, power floater blade and elec complete as per specification and direction of engineer in charge of work.						
	CR 3 LHS Balance	1	14.30	(4.7+4.6)/2	-	52.55	
	Salim House Road	1	30.00	4.40	-	132.00	
		1	18.70	(4.4+4.5)/2	-	74.32	
	Ali House Road	1	30.00	(3.9+3.5)/2	-	111.00	

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರ
ವಿದ್ಯಾರಣ್ಯಪುರ ಉಪ ವಿಭಾಗ
ಯಲಹಂಕ ವಲಯ,
ಬೆಂಗಳೂರು-9

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		1	30.60	3.50	-	121.10	
	CR	1	20.00	(3.1+3.2)/2	-	75.60	
						563.50 Sq	
					@	₹0.88/Sq	512.11 = 00
				Total			
						₹82250 = 00	
						965996 = 00	

Certificate:

Certified that the above work done is satisfactorily.

29/3/24

C&T E.

Serial No. .....

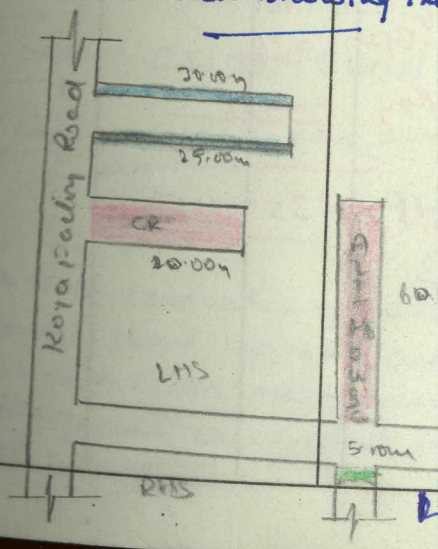
Name of work ..... Fr

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Numbe
1	2	3

Sketch showing th



MEASUREMENT BOOK

First and Final Bill

Serial No. BP-429/28 3/14

Name of work Improvements to co

Name of Contractor of nature of Agency. he

Date of commencement of work. Agency

Date	Full description, etc, of work	Number	Length	Breadth	Depth	Contents	Reference to last Measurement
1	2	3	4	5	6	7	8
	Work code : 011-14-00						
	Work order : EE/BTP/13						
	Est cost : 10.00 lakhs						
	1) Earth work excavation by horizontal throw upto 2 leveled and sides neatly breaking of clods etc comp charge of work.						

965996 = 00

830675 =

830675 = 00

IT — 9668

WCT — 38640

PT — 53125

Cess — 966

Roy — 23266

Total — 135321 = 00

26

3